| <br> | <b>-</b> . <b>-</b> . | laims |  |
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| Application/Control N | ٥. |
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10/650,086 Examiner

Callie E. Shosho

Applicant(s)/Patent under Reexamination

BREDT ET AL.

Art Unit

1714

| <b>√</b> | Rejected |
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| =        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

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| Cash      | Claim                         | _   | Date     |                |         | Claim Date |                    |          |          |          |              |          |          |                 | Claim Date  |   |              |                    |   |           |                |     |   |          |          |          |             |           |                         |  |
|--|-------------------------------|-----|----------|----------------|---------|------------|--------------------|----------|----------|----------|--------------|----------|----------|-----------------|---|---|--------------|--------------------|---|-----------|----------------|-----|---|----------|----------|----------|-------------|-----------|-------------------------|--|
| Single   S   |                               |     |          | 1              | Т       | Ť          | Τ_                 | Т        |          | $\dashv$ |              |          |          |                 |   |   |              |                    | " |           | Т              | П   | Т   | 7        |          | ,        | $\neg \tau$ | $\top$    |                         |  |
| Single   S   | <del> </del>     <del> </del> | 9   | 90       |                |         |            |                    |          | li       |          | <del> </del> | nal      | 90       |                 | - 1   |   |              |                    |   |           | - <del>-</del> | nal |   |          |          | - [      |             |           |                         |  |
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| 2  | "   5                         | 5   | 7        |                |         |            |                    |          |          |          | "            | Õ        | 12       |                 |   |   |              |                    |   |           | "              | Õ   |   |          | -        | - 1      |             |           |                         |  |
| 2  | 1/1                           | Ċ   | ./       | $\vdash$       | 十       | ╅          | +                  | +        | $\vdash$ | $\dashv$ | $\vdash$     | 51       | ./       | Н               | $\dashv$  | $\dashv$  | +            | 1                  |   | $\dashv$  | -              | 101 |   |          | +        |          | $\dashv$    | +         | +                       | +  |
| 3  |                               |     | ı        | 1              | +       | +          | +                  | +        | $\vdash$ | _        | <u> </u>     |          | Ť        | H               | $\dashv$  | +   | +            | +-                 |   | $\dashv$  |                |     | -   | ┪        | $\dashv$ | $\dashv$ | $\dashv$    | Ť         | $\dashv$                | +  |
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| 6  |                               |     | 1        |                | ┪       | 十          | $\top$             | $\top$   |          | $\neg$   |              |          | t        | $\Box$          | _   | 1   | T            | 1                  |   | 1         |                |     |   | T        | 寸        | ┪        |             |           | +                       | $\top$   |
| T   V   S   S   S   S   S   S   S   S   S  | <del></del>                   |     | 1        |                | ╅       | 十          | $\top$             | †        |          | ヿ        |              |          |          | H               | $\neg \dagger$  | $\top$  | T            | 1                  |   | $\exists$ |                |     |   | $\neg$   |          | ┪        | _           | 7         | $\dashv$                | 十  |
| No.   108   109   109   109   109   100   110   111    |                               |     | V        | 1              | 1       | ╅          | 十                  | T        |          |          |              |          | 7        |                 | 7   | ┰   | 十            |                    |   | $\dashv$  |                |     |   | 寸        | 7        | $\dashv$ |             | $\neg$    | 十                       | 十  |
| 9  | 7                             | , L |          |                | T       | T          | 1                  |          | П        |          |              |          |          |                 |   |   |              |                    |   | $\Box$    |                |     |   |          | ╛        | $\neg$   |             |           | 十                       | 十  |
| 11   | 9                             | ,   | <b>√</b> |                | $\top$  | $\top$     | $\top$             |          |          |          |              |          | Т        |                 |   |   |              | T                  |   | $\neg$    |                |     |   | 寸        | ヿ        | $\neg$   |             | $\neg$    | 十                       | $\top$   |
| 12   | 10                            | 0   |          |                |         |            | 7                  |          | П        | $\neg$   |              |          | П        | П               |   |   | 1            |                    |   |           |                |     |   |          | T        |          |             | $\exists$ | $\neg$                  | Τ  |
| 13   | 1                             | 1   |          |                |         |            |                    |          |          |          | _            |          | П        |                 | T   |   | $\top$       |                    |   |           |                |     |   |          |          |          |             | ī         |                         | Т  |
| 13   |                               |     | Ι        |                |         |            |                    |          |          |          |              | 62       | ¥        |                 |   |   |              |                    |   |           |                |     |   |          | $\neg$   | $\neg$   |             |           | $\Box$                  | $\top$   |
| 15   |                               |     |          |                |         |            |                    |          |          |          |              | 63       | <b>√</b> |                 | $\Box$  |   |              |                    |   |           |                |     |   |          | $\Box$   |          |             |           | $\neg$                  | Т  |
| 16   |                               |     |          |                |         |            |                    | ļ        |          |          |              |          |          |                 |   |   | $\perp$      |                    |   |           |                |     |   |          |          |          |             |           |                         |  |
| 17   |                               |     |          |                | ┸       | $\bot$     |                    | _        |          | _]       | <u></u>      | 65       | Ш        |                 |   |   |              |                    |   |           |                |     |   |          |          |          |             |           |                         | $\perp$  |
| 18   |                               |     |          |                | ┸       | ┸          |                    |          | Ш        |          |              |          | Ш        | Ш               | i_  | _L  | ┸            |                    |   |           |                |     |   |          |          |          |             |           | $\perp$                 |  |
| 19   |                               |     | √        |                |         |            |                    | _        | Ш        | _        |              |          |          | Ш               |   | $\perp$   | 丄            |                    |   | Ш         |                |     |   | $\Box$   | _        |          |             |           |                         |  |
| 120  |                               |     |          | $\sqcup \bot$  | 4       | ╧          | 4                  | _        |          |          | <u></u>      |          | 0        | Ш               | _   | 丄   |              |                    |   | $\Box$    |                |     |   |          | _        |          |             |           | ightharpoonup           |  |
| 121  |                               |     |          |                | _       | ┯          |                    | <u> </u> |          | _        |              |          |          | Ш               |   |   |              | <u> </u>           |   | Ш         |                |     |   |          |          | _        |             |           | ightharpoonup           | $\bot$   |
| 122   123   124   124   125   125   126   126   126   126   127   128   129   129   130    |                               |     | _√       | $\sqcup$       | $\perp$ | 4          | $\perp$            | $\perp$  | Ш        | _        | <u></u>      | <u>@</u> | =        | Ш               |   |   | $\perp$      | ļ                  |   |           |                |     |   | _        | _        |          |             |           | $\perp$                 |  |
| 123  |                               |     |          | $\bot\bot$     | $\perp$ | 4          |                    | ↓_       | Ш        | _        |              |          | Щ        |                 | _   |   | 丄            |                    |   |           |                |     |   | _        | _        | _        |             |           |                         | $\perp$  |
| 124   125   125   126   127   127   128   128   129   129   129   130   130   130   131   131   132   133   133   134   134   135   136   137   137   137   138   138   139   140   141   141   144   144   144   144   145   146   147   148   148   148   148   148   148   148   149    |                               |     | √        | Ш.             | _       | ┸          | _                  | _        |          | _        |              |          | Щ        | Щ               | _   |   | 1            | ↓_                 |   | _         |                |     |   | _        | $\dashv$ | _        | _           |           |                         | $\bot$   |
| Test   |                               |     | 4        | $\vdash$       | 4       | $\bot$     | -                  | ↓_       | $\sqcup$ | _        |              |          | Ц.       |                 |   |   | ┷            | $oldsymbol{\perp}$ |   | Ш         |                |     |   | _        | _        | _        | _           |           | _                       | _  |
| 76   |                               |     | 4        | $\vdash$       | +       | +          | _                  | ╄        |          | _        | ļ            |          | Y        | -               | _   | _   | _            |                    |   | _         | -              |     |   | _        | _        | _        | _           | _         | $\dashv$                | $\perp$  |
| 127  |                               |     |          | $\vdash$       | 4       | -          | +                  | _        | $\vdash$ | 4        |              |          |          |                 | _   | _   | $\bot$       | —                  |   | _         | <u> </u>       |     |   | _        | _        | _        | _           | _         | -                       | 4  |
| 28 78 √   29 128   30 80   (31) 81   (32) 82   33 131   34 83   35 85   36 136   37 88   39 89   40 90   41 91   43 93   44 94   45 96   48 98   48 98   48 98   48 98   48 98   48 98   144 144   48 98   148 149   |                               |     | <u>√</u> |                | +       | 4          | -                  | _        | $\vdash$ | _        |              |          | _        | $\vdash$        |   | $\perp$   | +            | ₩                  |   | Ш         | <u> </u>       |     |   |          | $\dashv$ | -        | _           | -         | $\dashv$                | _  |
| 129  |                               | _   | +        |                | +       | +          |                    | +        | $\vdash$ | -        | -            |          | -        | $\vdash \vdash$ | -   |   | +            | -                  |   |           | <u> </u>       |     | _   | _        | $\dashv$ |          |             |           | +                       | 4  |
| 30   |                               |     | +        | $\vdash$       | +       | +          | +                  | ╁        | $\vdash$ | -        | <u> </u>     |          | <b>V</b> | $\vdash$        | $\dashv$  |   | +            | +                  |   |           | <u> </u>       | 128 | -   | -        | $\dashv$ |          | $\dashv$    | _         | _                       | +  |
| 31   |                               |     | +        | $\vdash$       | ╬       | +          | +                  | +        | $\vdash$ | $\dashv$ | -            |          | _        | $\vdash \vdash$ | +   | +   | +-           | +                  |   | -         | <b> </b>       |     | -   | -        | -+       |          |             | _         | -                       | +  |
| 32   |                               |     | +        | $\vdash$       | +       | +          | +                  | +        | $\vdash$ | -        | -            |          | _        | $\vdash$        | +   |   | ╁            | +                  | - | $\dashv$  |                |     | -   | -        |          | $\dashv$ | $\dashv$    | $\dashv$  | $\dashv$                | -  |
| 33   V   |                               | 뵜   | ╅        | <del>   </del> | +       | ╁          | ╅                  | +        | $\vdash$ |          | -            |          | _        | $\vdash \vdash$ | -   | +   | ╁            | +                  | - | $\dashv$  |                |     | -   | -        | $\dashv$ |          |             | $\dashv$  | +                       | +  |
| 34 0 84   35 √ 135   36 1 85   37 √ 136   88 = 88   39 √ 88   40 1 90   41 √ 91   43 √ 92   44 1 93   45 1 95   46 1 95   47 1 97   48 1 98   49 1 148   49 9 149  |                               |     | 1        | ╁┼             | ╫       | +          | +                  | ╁        | ⊢┼       | $\dashv$ |              |          |          | $\vdash \vdash$ | +   | +   | ╁            | 1-                 |   |           |                |     | $\dashv$  | -        |          | $\dashv$ | $\dashv$    |           |                         | +  |
| 35 \ \   |                               |     |          |                | +       | ╁          | ╁                  | ╁        | +        |          |              |          | _        | $\vdash$        |   | -   | ╁            | +                  |   | $\dashv$  |                |     |   | $\dashv$ | ╌┼       | $\dashv$ | $\dashv$    | -         |                         | +  |
| 36 136   37 137   48 88   39 138   40 90   41 91   43 92   44 94   45 95   46 96   47 97   48 98   49 99   136 137   138 139   139 140   141 141   92 142   93 143   144 144   96 146   147 97   148 98   149 149  |                               |     |          |                | +       | +          | +                  | +        |          | -        |              |          | -        | $\vdash$        | $\dashv$  | $\dashv$  | ╁            | $\vdash$           | - | $\dashv$  | -              |     | +   |          | $\dashv$ | $\dashv$ | -           | -         | $\dashv$                | +  |
| 37   |                               |     | Ť        |                | +       | +          | +                  | +        | $\vdash$ |          | <u> </u>     |          |          |                 | -   | +   | ╁            | 1-                 |   | $\dashv$  | -              |     | $\dashv$  | ┪        | $\dashv$ |          | $\dashv$    | -+        | -                       | +  |
| 138  |                               |     | ╁        |                | $^{+}$  | +          | +                  | $\vdash$ | $\vdash$ | _        |              |          | _        | $\vdash$        | +   | +   | ╁╴           | 1                  |   | -         |                |     | $\dashv$  | ᆉ        | +        | ┪        |             | $\dashv$  | $\dashv$                | +  |
| 139   140   140   141   141   142   143   144   144   145   145   146   147   148   149    | 3                             | 8)  | =        |                | T       | +          | ✝                  | 1        |          | _        | <u> </u>     |          | _        | $\Box$          | 十   | +   | 1            | 1                  | _ | $\dashv$  | <b></b>        |     | _   | 7        | $\dashv$ | ᅥ        | _           | $\dashv$  | -                       | +  |
| 40   90   140     41   91   141     48   92   142     93   143   143     94   144   144     95   145   145     96   146   147     98   148   148     99   149   149  |                               |     | V        | 1 1            | ╅       | $\top$     | $\top$             | T        | $\vdash$ | ┪.       |              |          |          | H               | 十   |   | +            | $\vdash$           | _ | $\dashv$  |                |     | _   | 7        | 十        | 一        |             | $\dashv$  | $\dashv$                | +  |
| 41 √ 91   43 √ 92   44 1 93   44 1 94   45 96 144   46 97 96   47 97 147   48 99 99   49 99 149  | 40                            | 0 1 | T        |                | Ť       | T          | 1                  | †        | $\Box$   | _        |              |          | _        | П               | 十   | ┪   | $\top$       | T                  |   | $\neg$    |                | 140 | $\neg$  | 7        | $\dashv$ | 一        | _           | 一         | $\dashv$                | ╅  |
| 92   142   143   144   144   145   145   146   147   147   148   149   1 | 4                             | 1   | Ţ        |                | ┪       | Т          |                    | ✝        |          |          |              |          |          | П               | T   | $\top$  | T            | T                  |   | $\neg$    |                | 141 | o   | 寸        | $\neg$   | 一        | $\dashv$    | 7         |                         | 十  |
| 43 √ 93   44 1 94   45 95 144   46 97 96   47 98 148   49 99 99  | 1                             | Q.  |          |                | T       | T          |                    | T        |          |          |              |          |          |                 |   | 1   | $\top$       |                    |   | $\neg$    |                |     |   | 寸        | 寸        | $\neg$   | 寸           | 寸         | $\top$                  | ┪  |
| 44 94   45 95   46 96   47 97   48 98   49 99  |                               |     | √        |                |         |            |                    |          |          | 7        |              | 93       |          | П               | 7   |   | 1            | T                  |   | $\neg$    |                | 143 |   | ヿ        |          | 一        | 一           | 一         |                         | 丅  |
| 46 96   47 97   48 98   49 148   | 4                             | 4   |          |                |         |            |                    |          |          |          |              | 94       |          |                 |   |   | Т            |                    |   |           |                |     |   | コ        | $\neg$   |          | T           | $\neg$    | $\top$                  |  |
| 46 96   47 97   48 98   49 148   |                               |     | I        |                | Ι       |            | $oxed{\mathbb{I}}$ |          |          |          |              | 95       |          |                 |   | J   | $oxed{oxed}$ |                    |   |           |                | 145 |   |          |          |          |             | $\Box$    | $\top$                  | 十  |
| 48 98 148 149 99 149 149 149 149 149 149 149 149   |                               |     | I        |                | $\perp$ |            |                    |          |          |          |              | 96       |          |                 | $\Box$  | $\int$  |              |                    |   |           |                | 146 |   |          |          | I        | 1           | _         |                         | 丁  |
| 49 99 149  |                               |     |          | $\Box$         |         |            | L                  | oxdot    |          |          |              |          |          |                 | $\Box$  | Ι   | $oxed{\Box}$ |                    |   |           |                |     |   |          |          |          |             |           |                         | T  |
|  | 48                            | 8   | $\perp$  | $\Box$         |         |            |                    |          | П        |          |              |          |          |                 | $oldsymbol{ol}}}}}}}}}}}}}}}$ | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | $\perp$      |                    |   |           |                | 148 |   |          |          | I        | $\Box$      |           | $oldsymbol{\mathbb{I}}$ | $oldsymbol{ol}}}}}}}}}}}}$ |
| <b>(50) (√) (150) (150)</b>  | 14                            | 9   | 1        |                | $\perp$ | $\perp$    | $\perp$            | $\perp$  | Ш        |          |              |          |          |                 | $oxed{\int}$  |   |              |                    |   |           |                | 149 | $oldsymbol{ol}}}}}}}}}}}}}}}$ | ቯ        | $\Box$   | ┚        | $\Box$      |           |                         | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$  |
|  | 50                            | 0)  | Ψ        | LL.            | Т.      |            |                    | <u></u>  | Ш        |          |              | 100      |          | Ш               | $\perp$   |   | $\perp$      |                    |   |           |                | 150 | $\perp$   | $\perp$  |          |          | ]           | $\perp$   |                         |  |